



Brustein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J., and Simpson, A.J.G.  
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags  
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)  
20202663  
Contact: Simpson A.J.G.  
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Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
(http://www.ludwig.org.br/scripts/gethtml2.pl?11 RC5&f2 RC5-GN0281-010201-012-002&f2=2031-01-23&f4-1)  
Seq primer: puc 18 forward  
High quality sequence stop: 214.  
Location/Qualifiers  
1. .214  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="GN0281"  
/dev\_stage="Adult"  
/note="organ: placenta\_normal; Vector: puc18; Site\_1: SmaI  
; Site\_2: SmaI; A mini-library was made by cloning  
products derived from ORFEST PCR (O.S. Letters Patent  
application No. 196,716 - Ludwig Institute for Cancer  
Research) profiles into the puc 18 vector. Reverse  
transcription of tissue mRNA and cDNA amplification were  
performed under low stringency conditions."  
BASE COUNT 67 a 36 c 88 g 23 t  
ORIGIN

Alignment Scores:  
Pred. No.: 0.00159 Length: 214  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
13  
US-09-856-070-19 (1-13) x B1052878 (1-214)  
QY 1 TysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
|||||  
Db 53 AAGCAGGACITGATCGCTCGCGCTGACGACATGACGAG 91  
RESULT 2  
B1054475  
LOCUS B1054475 214 bp mRNA linear EST 15-JUN-2001  
DEFINITION RC5-GN0281-010201-012-002 Homo sapiens cDNA, mRNA sequence.  
ACCESSION B1054475  
VERSION B1054475.1 GI:14462005  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
1 (bases 1 to 214)  
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,  
Nagai, M.A., da Silva, W. Jr., Zaio, M.A., Bordin, S., Costa, F.F.,  
Goldman, G.B., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, A.J.G.,  
Brustein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,  
M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J., and  
Simpson, A.J.G.  
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## COMMENT

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(http://www.ludwig.org.br/scripts/gethtml2.pl?11 RC5&f2 RC5-GN0281-010201-012-002&f2=2031-01-23&f4-1)  
Seq primer: puc 18 forward  
High quality sequence stop: 214.  
Location/Qualifiers  
1. .214  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="GN0281"  
/dev\_stage="Adult"  
/note="organ: placenta\_normal; Vector: puc18; Site\_1: SmaI  
; Site\_2: SmaI; A mini-library was made by cloning  
products derived from ORFEST PCR (O.S. Letters Patent  
application No. 196,716 - Ludwig Institute for Cancer  
Research) profiles into the puc 18 vector. Reverse  
transcription of tissue mRNA and cDNA amplification were  
performed under low stringency conditions."  
BASE COUNT 68 a 36 c 88 g 22 t  
ORIGIN

## FEATURES

source

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top100\* by electrotransformation method. The cDNA libraries constructed by this method are full-length enriched cDNA library.

BASE COUNT 81 a 48 c 117 q 29 t

ORIGIN

#### Alignment Scores:

Pred. No.: 0.00227 Length: 275  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-856-070-19 (1-13) x BW844124 (1-275)

QY 1 LysGluInuLeuMetLeuArqLeuGlnAspTyGluGlu 13  
|||||

DB 45 AAGCAGCAGTTCATGCGCGCGCTCCAGGACATACAGGAG 84  
|||||

RESULT 6

BW84424

LOCUS BW84424 279 bp mRNA linear EST 12 JAN 2001  
DEFINITION QY4-C10151-031100-513-f05 C10151 Homo sapiens cDNA, mRNA sequence.

ACCESSION BW84424

VERSION BW84424.1 GI:12133312

KEYWORDS EST

SOURCE human

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 279)

AUTHORS Nagaoka, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Balda, G.S., Simpson, D.H.,

Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare

, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J., and

Simpson, A.J.

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sequence tags

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This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/ftp/seq/submit.pl?file=LV4412 JV4 C10151>)

031100-513-f05&t4-2000-11-03&t4-1)

Seq primer: puc 18 forward

High quality sequence stop: 279.

FEATURES

source

1..279

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="C10151"

/dev\_stage="Adult"

/note="organism: colon ins. Vector: puc18, Site1: Shal;

Site2: Shal; A mini-library was made by cloning products

derived from ORESTES PCR (U.S. Letters Patent application

No. 196,716 - Ludwig Institute for Cancer Research)

profiles into the puc 18 vector. Reverse transcription of

tissue mRNA and cDNA amplification were performed under

low stringency conditions."

BASE COUNT 88 a 53 c 111 q 27 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00242 Length: 279  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 12 Gaps: 0

US-09-856-070-19 (1-13) x BW804323 (1-279)

QY 1 LysGluInuLeuMetLeuArqLeuGlnAspTyGluGlu 13  
|||||

DB 11R AAGCAGCAGTTCATGCGCGCGCTCCAGGACATACAGGAG 156  
|||||

RESULT 7

BW845219

LOCUS BW845219

DEFINITION QY4-C10151-290699-017 a05 C10151 Homo sapiens cDNA, mRNA sequence.

ACCESSION BW845219

VERSION BW845219.1 GI:7940736

KEYWORDS EST

SOURCE human

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 281)

AUTHORS Nagaoka, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Balda, G.S., Simpson, D.H.,

Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare

, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J., and

Simpson, A.J.

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sequence tags

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This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/ftp/seq/submit.pl?file=LV4412 JV4 C10151>)

694-017-a05&t3-1999-06-29&t4-1)

Seq primer: puc 18 forward

High quality sequence stop: 280.

FEATURES

source

1..281

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="C10012"

/dev\_stage="Adult"

/note="organism: colon ins. Vector: puc18, Site1: Shal;

Site2: Shal; A mini-library was made by cloning products

from ORESTES PCR (U.S. Letters Patent application No. 196

,716 - Ludwig Institute for Cancer Research) profiles

into the puc 18 vector. Reverse transcription of tissue

mRNA and cDNA amplification were performed under low

stringency conditions."

BASE COUNT 94 a 52 c 105 q 30 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00234 Length: 281

Score: 65.00 Matches: 13

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 10 Gaps: 0

US-09-856-070-19 (1-13) x AMB45219 (1-281)

QY 1 LysGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
DB 173 AAGGAGGACTGATGCTGGGCTGGAGGACTATGAGCAG 211

# RESULT 8

BI050028/c  
LOCUS BI050028 294 bp mRNA linear EST 15-JUN-2001  
DEFINITION CM2-0N0294-070101-675-e08 GN0294 Homo sapiens cDNA, mRNA sequence  
ACCESSION BI050028  
VERSION BI050028.1 GI:14457558  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 294)  
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Bucher,P., Joazeiro,E.V., O'Hare,M.J., Soares,F., Brentani,R.F., Reis,L.F., de Souza,S.J. and Simpson,A.J.  
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

JOURNAL Proc Natl Acad Sci U S A 97 (7), 3491-3496 (2000)  
MEDLINE 20202663  
COMMENT Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
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Tel.: +55-11-27040922  
Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
(http://www.ludwig.org.br/scripts/gn/hml2.pl?cl=CM2-0N0294-020101-675-e08SL3-2001-01-02&rl=1)  
Seq primer: puc 18 forward  
High quality sequence start: 17  
High quality sequence stop: 294.  
Location/Qualifiers  
1..294  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="GN0294"  
/dev\_stage="Adult"  
/note="Organ: placenta; normal: Vector: puc18; Site\_1: SmaI products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

# FEATURES

source  
BASE COUNT 34 a 114 c 56 g 90 t  
ORIGIN  
Alignment Scores:  
Prod. No. 0.00249 Length: 294  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservativeness: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 13 Gaps: 0

US-09-856-070-19 (1-15) x BI050028 (1-294)  
QY 1 LysGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
DB 216 AAGGAGGACTGATGCTGGGCTGGAGGACTATGAGCAG 178

# RESULT 9

BF869430  
LOCUS BF869430 297 bp mRNA linear EST 17 JAN 2001  
DEFINITION QV0-ET0148-231000-455-d07 ET0148 Homo sapiens cDNA, mRNA sequence.  
ACCESSION BF869430  
VERSION BF869430.1 GI:12259560  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 297)  
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Bucher,P., Joazeiro,E.V., O'Hare,M.J., Soares,F., Brentani,R.F., Reis,L.F., de Souza,S.J. and Simpson,A.J.  
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

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MEDLINE 20202663  
COMMENT Contact: Simpson A.J.G.  
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Tel.: +55-11-27040922  
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Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
(http://www.ludwig.org.br/scripts/gn/hml2.pl?cl=QV0-ET0148-231000-455-d07&rl=1)  
Seq primer: puc 18 forward  
High quality sequence stop: 297.  
Location/Qualifiers  
1..297  
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/clone\_lib="ET0148"  
/dev\_stage="Adult"  
/note="Organ: lung\_tumor; Vector: puc18; Site\_1: SmaI; Site\_2: SmaI; A mini library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

# FEATURES

source  
BASE COUNT 90 a 56 c 119 g 31 t  
ORIGIN  
Alignment Scores:  
Prod. No. 0.00253 Length: 297  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservativeness: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 12 Gaps: 0

US-09-856-070-19 (1-15) x BF869430 (1-297)  
QY 1 LysGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
DB 118 AAGGAGGACTGATGCTGGGCTGGAGGACTATGAGCAG 156

# RESULT 10

BM827086  
LOCUS BM827086 312 bp mRNA linear EST 05-MAR-2002  
DEFINITION F-ES10074431-S45N0001 Homo sapiens cDNA clone S45N0001 44 JUN 97,  
KEYWORDS mRNA sequence.  
ACCESSION BM827086



M.J., Soares, F., Brentani, R. P., Reis, L. F., de Souza, S. T. and Simpson, A. J.  
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20202663  
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Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br  
This sequence was derived from the FAPESP/Ludwig Human Cancer Genome project. This entry can be seen in the following URL:  
(http://www.ludwig.org.br/scripts/genehm12.pl?lib=MF1st3-MJ1-CF0539-090501-010-010914-2001-05-09&4-1)  
Seq primer: puc 18 forward  
High quality sequence stop: 348.  
Location/Qualifiers  
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/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="GN0516"  
/dev\_stage="Adult"  
/note="Organ: placenta; normal; Vector: puc18; Site: 1; Smal products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."  
112 a 146 g 42 t

Alignment Scores:  
Pred. No.: 0.00337 Length: 364  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 6

# FEATURES

source

US-09-856-070-19 (1-13) x HQ368118 (1-364)  
QY 1 LysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
DB 119 AAGAGAGATTCATGCTGGGTGTGAGACTAAGAGAG 157  
RESULT 13  
HQ318340/C  
LOCUS MF1-010670-140900-002-112 (puc18) Homo sapiens cDNA, mRNA sequence.  
DEFINITION BQ318340  
ACCESSION BQ318340  
VERSION HQ318340.1 GI:20924109  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 401)  
AUTHORS Dias Neto, P., Garcia Correa, R., Verhovski-Almeida, S., Arionnes, M. P., Nagai, M. A., de Silva, W. Jr., Sajo, M. A., Bordin, S., Costa, F. F., Goldman, G. B., Carvalho, A. F., Matsukuma, A., Bala, G. S., Simpson, D. H., Brustein, A., de Oliveira, P. S., Bucher, P., Torgersen, L. V., O'Hare, M. J., Soares, F., Brentani, R. P., Reis, L. F., de Souza, S. T. and Simpson, A. J.  
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20202663

# COMMENT

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Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509 010, Sao Paulo-SP, Brazil  
Tel: +55 11-2704922  
Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br  
This sequence was derived from the FAPESP/Ludwig Human Cancer Genome project. This entry can be seen in the following URL:  
(http://www.ludwig.org.br/scripts/genehm12.pl?lib=MF1st3-MJ1-CF0539-140900-002-010670-2000-09-14&4-1)  
Seq primer: puc 18 forward  
High quality sequence stop: 2  
High quality sequence stop: 401.  
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/db\_xref="taxon:9606"  
/clone\_lib="CF0529"  
/dev\_stage="Adult"  
/note="Organ: colon; Vector: puc18; Site: 1; Smal products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."  
56 a 144 c 73 g 128 t

# FEATURES

source

US-09-856-070-19 (1-13) x HQ318340 (1-401)  
QY 1 LysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
DB 255 AAGAGAGATTCATGCTGGGTGTGAGACTAAGAGAG 217  
RESULT 14  
HM744771  
LOCUS K-EST0018496 S4SN01 Homo sapiens cDNA clone S4SN01-18-D12 5', mRNA sequence.  
DEFINITION HM744771.1 GI:19066100  
ACCESSION HM744771  
VERSION HM744771.1  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 404)  
AUTHORS Oh, K. J., Cheong, J. E., Sohn, H. Y., Lee, J. Y., Ahn, H. Y., Chu, M. Y., Kim, M. R., Kim, N. S., Hahn, Y., Oh, J. H., Kim, J. M., Park, H. S., Kim, S., and Kim, Y. S.  
21C Frontier Korean EST Project: 2001  
Unpublished (2002)  
Contact: Kim, Y. S.  
Genome Research Center  
Korea Research Institute of Bioscience & Biotechnology  
52 Eoein-dong Yusong-gu, Taejeon 305-383, South Korea  
Tel: +82-42-860-4470  
Fax: +82-42-860-4409  
Email: yongsung@mail.kribb.re.kr  
Plate: 18, row: D, column: 12  
High quality sequence stop: 404.  
Location/Qualifiers

# FEATURES

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/db_xref="taxon:9606"
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/clone_lib="S4SNU1"
/sex="M"
/issue_type="Stomach"
/cell_type="Lymphoblast-like"
/lab_host="SNU-1"
/lab_host_top10p="
/Note="Organ: Stomach; Vector: pTZ19BP1; Site_1: EcoRI;
Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tobacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including EcoR
I site by treatment of 14 RNA ligase and the first strand
cDNA was synthesized from oligo dt-selected mRNA by
priming with dt-tailed vector. The dt-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with E. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Herg method. The
obtained cDNA vectors were used for transformation of
competent cells E. coli Top10F by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library."
BASE COUNT      127 a      83 c      141 g      53 t
ORIGIN
Alignment Scores:
Pred. No.:      0.0039      Length:      404
Score:          65.00      Matches:      13
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      100.00%      Indels:      0
DB:              14      Gaps:      0

US 09-856-070-19 (1-13) x BM744771 (1-404)

QY      1  TysGluGluLeuMctLeuArqLeuGlnAspPyrGluGlu 13
|||||
Db      270  AAGGAGGAGTGTGTCGAGGAGTATGAGGAG 308

RESULT 15
BQ400862/c
LOCUS      BQ400862      413 bp      mRNA      linear      EST 16-MAY-2002
DEFINITION      M44-KT0047-160501-004-104 KT0047 Homo sapiens cDNA, mRNA sequence.
ACCESSION      BQ400862
VERSION      BQ400862.1 GI:20816484
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 413)
AUTHORS      Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Naqvi,M.A., da Silva,W. Jr., Zago,M.A., Hordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Hata,G.S., Simpson,D.H.,
Brustein,A., de Oliveira,P.S., Huber,P., Jongeneel,C.V., O'Hare
,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotton sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br

```

```

This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
ftp://www.ludwig-lcr.fr/scr/p/s/g/Ph/412/1/001/M44-KT0047-
160501-003-f04s43-2001-05-16s44-1)
Seq primer: puc 18 forward
High quality sequence stop: 413.
FEATURES
Location/Qualifiers
1..413
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="KT0047"
/dev_stage="Adult"
/Note="Organ: Bladder tumor; Vector: puc18; Site_1: SmaI;
Site_2: SmaI; A mini-library was made by cloning products
derived from ORFESHS PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the puc 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
BASE COUNT      46 a      156 c      86 g      125 t
ORIGIN
Alignment Scores:
Pred. No.:      0.00403      Length:      413
Score:          65.00      Matches:      13
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      100.00%      Indels:      0
DB:              14      Gaps:      0

US-09-856-070-19 (1-13) x BQ400862 (1-413)

QY      1  TysGluGluLeuMctLeuArqLeuGlnAspPyrGluGlu 13
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Db      192  AAGGAGGAGTGTGTCGAGGAGTATGAGGAG 154

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Search completed: January 16, 2003, 21:37:06  
Job time : 1721.09 secs